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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re application of: Alexander SNELL et al.

Examiner:

Application No.: 10/590,187

Group No.:

Filed: 08/17/2006

For: METHOD FOR PRODUCING ALKYLENE GLYCOL DIETHERS

Commissioner for Patent  
P.O. Box 1450  
Alexandria, VA 22313-1450

## INFORMATION DISCLOSURE STATEMENT

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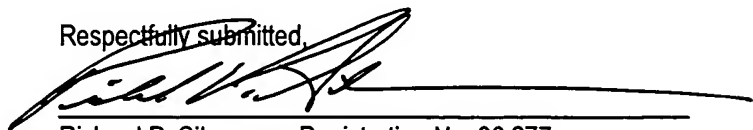
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Dear Sir:

In accordance with the duty of disclosure provisions of 37 CFR §1.56, there is hereby provided certain information which the Examiner may consider material to the examination of the subject U.S. patent application. It is requested that the Examiner make this information of record if it is deemed material to the examination of the subject application. No admission is made that the information cited in this Statement is, or is considered to be, material to patentability nor a representation that a search has been made (other than search report(s) from a counterpart foreign application or a PCT International Search Report, if submitted herewith).

1. ☒ Enclosures accompanying this Information Disclosure Statement are:
  - 1a. ☒ Form PTO-1449 (PTO/SB/08a and/or PTO/SB/08b).
  - 1b. ☒ Copies of Information Disclosure Statement citations.
  - 1c. ☒ PCT or EP Search Report .
  - 1d. ☒ Copies of Co-pending U.S. Applications.
2. ☐ This Information Disclosure Statement is filed under 37 CFR §1.97(b) with the filing of the U.S. patent application. Accordingly, no fee or §1.97(e) Statement is required.
3. ☒ This Information Disclosure Statement is filed under 37 CFR §1.97(b) before the latter of three months after the U.S. patent application filing date or the first Office Action on the merits. Accordingly, no fee or §1.97(e) Statement is required.
4. ☐ This Information Disclosure Statement is filed under 37 CFR §1.97(c) after the first Office Action on the merits, but before a Final Office Action or a Notice of Allowance. The \$180.00 fee set forth in 37 CFR §1.17(p) in accordance with 37 CFR §1.97(c) is to be charged to Deposit Account No. 03-2060.
5. ☐ This Information Disclosure Statement is filed under 37 CFR §1.97(e) in that each item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. Accordingly, no fee is required.
6. ☐ This Information Disclosure Statement is filed in conjunction with a Request For Continued Examination. Accordingly, no fee or §1.97(e) Statement is required.
7. ☐ The English language documents identified by reference in the TRANSLATION Section of the foreign patents list of the attached 1449 Form are believed to be a concise statement, or the equivalent or substantial equivalent to the foreign language documents cited in the attached 1449 Form.
8. ☒ In addition to the documents cited, the Office's attention is directed to the following co-pending U.S. Application Serial Number(s) :  
Application No. 11/197,984, 08/05/2005, published as 2006 0030740  
Application No. 11/256,126, 10/21/2005, published as 2006 0089515

Respectfully submitted,



Richard P. Silverman, Registration No. 36,277

CUSTOMER NO. 25,255

Clariant Corporation, Industrial Property Department, 4000 Monroe Road, Charlotte, North Carolina 28205

Telephone: 704/331-7156, Facsimile: 704/331-7707

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 1 of 3

**Complete if Known**

|                        |                 |
|------------------------|-----------------|
| Application Number     | 10/590,187      |
| Filing Date            | 08/17/2006      |
| First Named Inventor   | Alexander SNELL |
| Art Unit               |                 |
| Examiner Name          |                 |
| Attorney Docket Number | 2004DE407       |

**U. S. PATENT DOCUMENTS**

| Examiner Initials* | Cite No. <sup>1</sup> | Document Number                          | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant<br>Figures Appear |
|--------------------|-----------------------|--|--------------------------------|--|---|
|                    |                       | Number-Kind Code <sup>2</sup> (if known) |                                |  |   |
|                    | AA                    | US- 3,972,949                            | 08/03/1976                     | ARPE   |   |
|                    | AB                    | US- 4,146,736                            | 03/27/1979                     | SCHEFFEL   |   |
|                    | AC                    | US- 4,760,200                            | 07/26/1988                     | KEEN   |   |
|                    | AD                    | US- 4,579,982                            | 04/01/1986                     | BRIGGS   |   |
|                    | AE                    | US- 5,811,062                            | 09/22/1992                     | WEGENG   |   |
|                    | AF                    | US- 2,001,029,294                        | 10/11/2001                     | NICKEL   |   |
|                    | AG                    | US- 6,469,147                            | 10/22/2002                     | NICKEL   |   |
|                    | AH                    | US-                                      |                                |  |   |
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|                    | BA                    | DE 24 34 057  | 08/03/1976                     | HOECHST  | See AA Page 1   | <input type="checkbox"/> |
|                    | BB                    | DE 26 40 505  | 12/22/1977                     | HOECHST  | See AB Page 1   | <input type="checkbox"/> |
|                    | BC                    | DE 31 28 962  | 02/10/1983                     | HOECHST  | See CA Page 3   | <input type="checkbox"/> |
|                    | BD                    | DE 30 25 434  | 02/05/1981                     | NISSO PETROCHEM                                    |   | <input type="checkbox"/> |
|                    | BE                    | DD 24 62 57   | 06/03/1987                     | ADADEMIE DE WISSENSCHAFTEN                         |   | <input type="checkbox"/> |

Examiner  
SignatureDate  
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Sheet 2 of 3

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| First Named Inventor   | Alexander SNELL |
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|                    | AA                    | US-                                      |                                |  |   |
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|                    | AO                    | US-                                      |                                |  |   |
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|                    | AR                    | US-                                      |                                |  |   |

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|                    | BA                    | DE 39 26 466  | 12/19/1996                     | MESSERSCHMIDT                                      | See CB Page 3   | <input type="checkbox"/> |
|                    | BB                    | DE 10 04 0100   | 02/28/2002                     | CLARIANT   | See AF & AG Page 1  | <input type="checkbox"/> |
|                    | BC                    |   |                                |  |   | <input type="checkbox"/> |
|                    | BD                    |   |                                |  |   | <input type="checkbox"/> |
|                    | BE                    |   |                                |  |   | <input type="checkbox"/> |

|                    |  |                 |  |
|--------------------|--|-----------------|--|
| Examiner Signature |  | Date Considered |  |
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|  |      | Filing Date              | 08/17/2006      |
|  |      | First Named Inventor     | Alexander SNELL |
|  |      | Art Unit                 |                 |
| Examiner Name  |      |                          |                 |
| Sheet 3  | of 3 | Attorney Docket Number   | 2004DE407       |

| NON PATENT LITERATURE DOCUMENTS |                       |   |                          |
|---------------------------------|-----------------------|---|--------------------------|
| Examiner Initials*              | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup>           |
|                                 | CA                    | English Language Abstract for DE3128962, 02/10/1983   | <input type="checkbox"/> |
|                                 | CB                    | English Language Abstract for DE 3926466, 12/19/1996  | <input type="checkbox"/> |
|                                 | CC                    | EHRFELD, W., et al., MICROREACTORS, Ullmann's Encyclopedia of Ind. Chem., 06/15/2000, Wiley-VCH Verlag GmbH, Germany  | <input type="checkbox"/> |
|                                 | CD                    | K. WEISSERMEL, et al., Industrielle Organische Chemie, 1998, page 179   | <input type="checkbox"/> |
|                                 | CE                    | H. KESTENBAUM, et al., "SILVER-CATALYST OXIDATION OF ETHYLENE TO ETHYLENE OXIDE IN A MICROREACTOR SYSTEM", Ing. Eng. Chem. Res., 01/22/2002, Vol. 41, pp 710-719  | <input type="checkbox"/> |
|                                 | CF                    | International Search Report for PCT/EP2005001236, 05/24/2005  | <input type="checkbox"/> |
|                                 | CG                    | English Language Abstract for DE 3025434, 02/05/1981  | <input type="checkbox"/> |
|                                 | CH                    | English Language Abstract for DD246257, 06/03/1987  | <input type="checkbox"/> |
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